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NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/CEMENT/2014-15 Date: 23.02.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. C. Sathish,** Contractor, Bangalore.
*NAME OF THE WORK	:	Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	18.02.2015
PERIOD OF TESTING	:	18.02.2015 to 23.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/SAND-Gradation/2014-15 : 23.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. C. Sathish,** Contractor, Bangalore.

*** Name of Work** : Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 18.02.2015

Date of Testing : 23.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	76.00	60-95	75-100	85-100	95-100
1.18	54.50	30-70	55-90	75-100	90-100
600 Micron	27.70	15-34	35-59	60-79	80-100
300 Micron	15.50	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/AGG/GR/2014-15 : 23.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. C. Sathish,** Contractor, Bangalore.
* Name of Work	: Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated. 18.02.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 18.02.2015
Date of Testing	: 23.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.45	95-100	85-100
20	46.45	30-70	0-20
10	17.90	10-35	0-5
4.75	3.40	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/AGG/GR/2014-15 : 23.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. C. Sathish,** Contractor, Bangalore.
* Name of Work	: Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 18.02.2015
Date of Testing	: 23.02.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.00	95-100	85-100
10	32.10	25-55	0-20
4.75	6.20	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.01/CS/STEEL/2014-15 09.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Divis. on, BBMP, Bangalore.
Agency	:	**Mr. C. Sathish,** Contractor, Bangalore.
Name of the Work	:	Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Date of Test	:	09.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No. CTCE/BBMP/W.No.01/CS/STEEL/2014-15 09.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Sathish,** Contractor, Bangalore.
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Date of Test	:	09.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.15	O.K	O.K

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Job No: CTCE/BBMP/W.No.01/CS/STEEL/2014-15 09.03.2015

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Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Sathish,** Contractor, Bangalore.
Name of the Work	:	Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Date of Test	:	09.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.30	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Sathish,** Contractor, Bangalore.
Name of the Work	:	Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Date of Test	:	09.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.40	O.K	O.K

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Job No. CTCE/BBMP/W.No.01/CS/STEEL/2014-15 09.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Sathish,** Contractor, Bangalore.
Name of the Work	:	Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Date of Test	:	09.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	20	2.47	525	569	13.50	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/Bricks/2014-15 : 24.03.2015

TEST REPORT ON BRICKS

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. C. Sathish,** Contractor, Bangalore.
* Name of the work	: Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Sample ID/Type of Test	: Bricks / Water Absorption of Bricks
Technical Reference	: IS: 3495(Part-2)- 1992 (RA-2007)
Sample Received on	: 19.03.2015
Date of Testing	: 24.03.2015

Sl.No.	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Absorption in %	Average Water Absorption in %	Allowable Water absorbtion as per IS: 1077:1992 Clause 7.2)
1	220x100x75	2949	3280	11.22	11.43	Not exceeding 20%
2	220x100x75	2958	3292	11.29		
3	220x100x75	2947	3288	11.57		
4	220x100x75	2935	3287	11.99		
5	220x100x75	2967	3296	11.09		

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/Bricks/2014-15 : 24.03.2015

TEST REPORT ON BRICKS

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. C. Sathish,** Contractor, Bangalore.

*** Name of the work** : Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015

Sample ID/Type of test : Bricks / Compressive Strength of Bricks

Technical Reference : IS: 3495(Part-1)- 1992 (RA-2007)

Sample Received on : 19.03.2015

Date of Testing : 24.03.2015

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation (As per IS: 1077:1992 Table 1)
1	220x100x75	3432.00	137.5	6.25	5.74	5.0
2	220x100x75	3418.00	127.8	5.81		
3	220x100x75	3537.00	123.2	5.60		
4	220x100x75	3458.00	114.5	5.20		
5	220x100x75	3439.00	128.6	5.85		

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Job No: CTCE/BBMP/W.No.01/CS /Vitrified Tiles/2014-15 Date: 19.10.2015

TEST REPORT ON GLAZED VETRIFIED TILES

Customer	:	**Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Sathish,** Contractor, Bangalore.
Name of the Work	:	Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
Date of Test	:	19.10.2015
No. of Samples taken	:	03 nos.

Sl.No	Type of test	Result as per Test
1	Shape of Tiles	Square
2	Dimensions Of Tiles	600mm X 600mm
3	Thickness	10.0 mm

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Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/CUBE/2014-15 06.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* **Agency** : **Mr. C. Sathish,** Contractor, Bangalore.
* **Name of the work** : Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* **Reference** : AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 09.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.03.2015	06.04.2015	8.098	352.3	15.66
2	09.03.2015	06.04.2015	8.155	360.1	16.00
3	09.03.2015	06.04.2015	8.277	370.3	16.46

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.01/CS/CSR-2/768h/CUBE/2014-15 04.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. C. Sathish,** Contractor, Bangalore.
* Name of the work	: Construction of Sthri Shakthi bhavana in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 18.02.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 06.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2015	04.05.2015	8.198	492.3	21.88
2	06.04.2015	04.05.2015	8.296	502.2	22.32
3	06.04.2015	04.05.2015	8.369	519.6	23.09

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